


Engineer: Jack Curtis	Date: 6/25/02	 JPS Communications 5800 Departure Drive, Raleigh, NC 27616			
Drawn: Jack Curtis	Date: 6/25/02				
Checked: CTS	Date: 6/25/02	Title: ACU RADIO APPLICATION NOTES			
Approved: Revised	Date: 5/12/05	Size: A	Dwg. #: 5961-271171-APP	Rev: C	Sheet: 1 of 2

APPLIES TO: Ericsson-GE-M/A-COM Orion Mobile (Dash-mount)
M/A-COM M7100 IP Mobile (Dash-mount)

RADIO MODIFICATIONS: None required

RADIO PROGRAMMING:

1. Mobile radios should normally be programmed for low transmit power.
2. Auxiliary Input 2 must be programmed as PTT. To program, first go to OPTIONS, then External I/O options. Go to Keycode and select Auxiliary Input 2. Scroll down and select EXPTT.
3. Auxiliary Output 1 must be programmed for Squelch Type COR functionality. To program, first go to OPTIONS, then External I/O options. Go to External Mute and place a check in that box. Set External Mute Output to 1 and set External Mute to Active Low.

RADIO CONTROLS:

Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be set to the full volume position.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

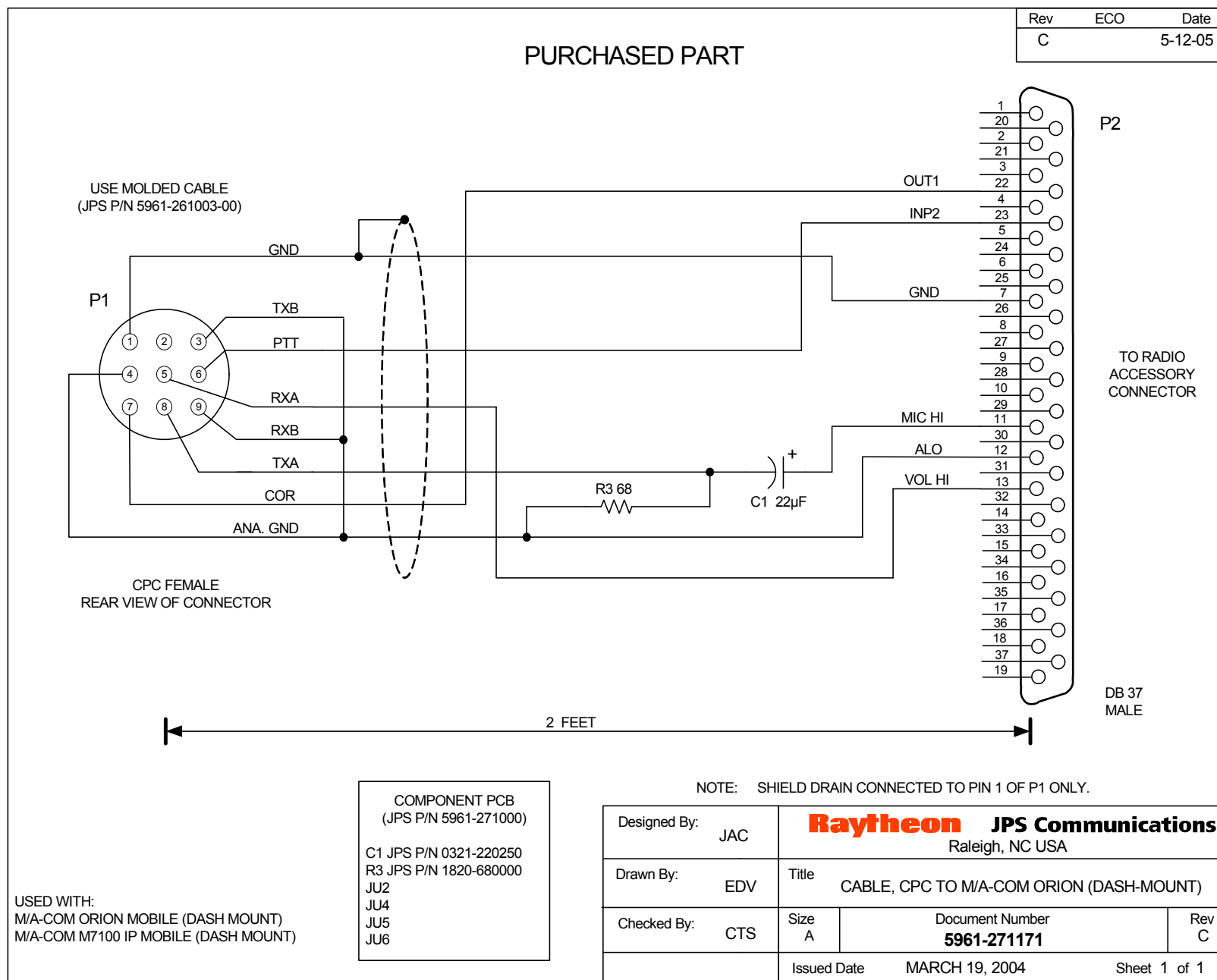
	<u>Dash-Mount</u>
ACU-1000 Interface Cable	JPS P/N 5961-291171 (5961-271171 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281171 (5961-271171 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271171
RF Connector Type	TNC

DSP PROGRAMMING:

RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	COR	
COR Polarity	Active Low*	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	

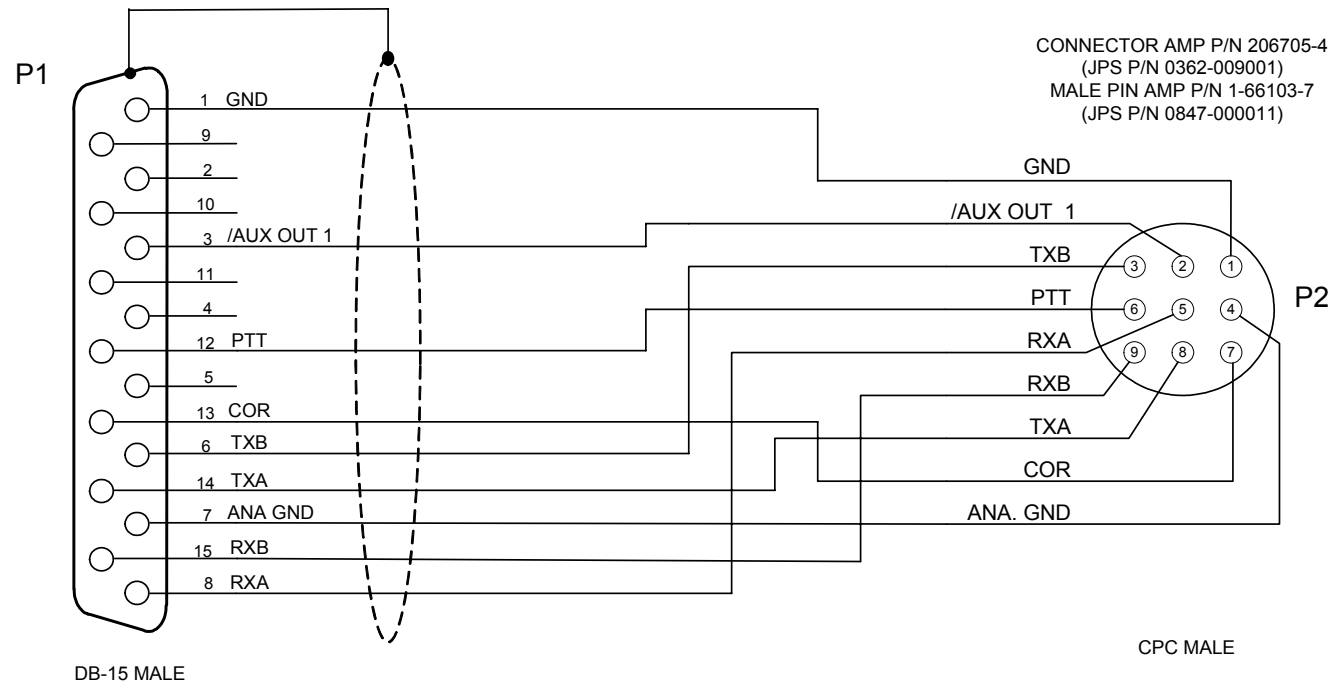
(*Indicates Default Value)

NOTES:



PURCHASED PART

Rev	ECO	Date
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- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

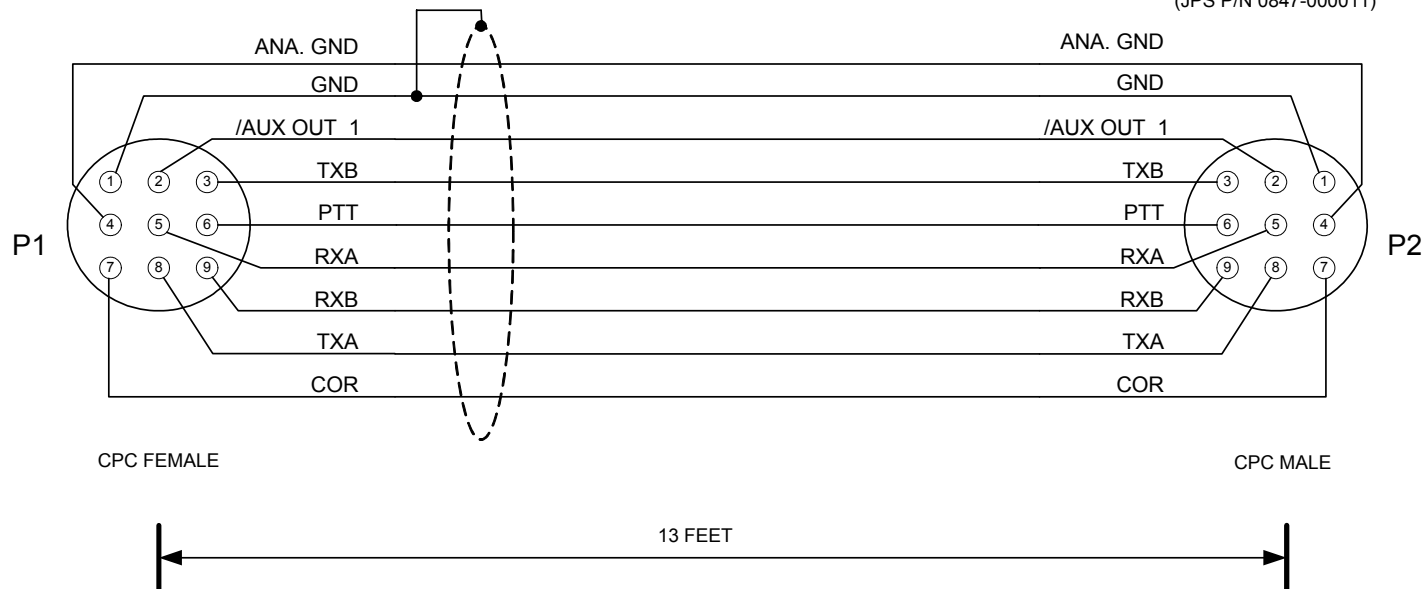
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
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PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-281013-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	